

**CORPORATE PURCHASING SPECIFICATION**

AA 113 15

Rev. No. 01

PREFACE SHEET

PURE NICKEL

**FOR INTERNAL USE ONLY
REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS**

Comparable Standards:

1. INDIAN : IS: 2782-1964

Suggested / Probable Suppliers and Grades :

1. MMTC
2. Refer plant vendors list

User Plant References:

1. BHOPAL : ---
2. HYDERABAD : ---
3. CFFP, HARDWAR : MP 76

Revisions:
Cl: 19.9.11 of MOM of MRC-FN

APPROVED :
**INTERPLANT MATERIAL
RATIONALISATION COMMITTEE-MRC (FN)**

Rev. No. 01

Amd.No.

Reaffirmed

Prepared
HYDERABADIssued
Corp. R&DDt. of 1st Issue
January, 1994

Dt: 15.06.2005

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Year :

**PURE NICKEL****1.0 GENERAL:**

This specification governs the quality requirements of Pure Nickel to be used in foundries.

2.0 APPLICATION:

Used as an alloying metal in the production of ferrous and non-ferrous castings.

3.0 COMPLIANCE WITH NATIONAL STANDARDS:

The material shall comply, in general, with the requirements of the following national standard and also meet the requirements of this specification.

IS: 2782 – 1964 : Primary Nickel

4.0 SIZE AND SHAPE:

The material shall be in the form of square plates or shots or briquettes and of sizes mutually agreed between the supplier and BHEL.

5.0 TEST SAMPLE:

As per clause 6.0 of IS: 2789 – Primary Nickel.

6.0 CHEMICAL COMPOSITION:

The material, when analysed in accordance with IS: 2766-Part I, shall show the following composition.

Composition	Percentage	
	Min	Max
Nickel	99.0	–
Cobalt	–	0.50
Iron	–	0.20
Copper *	–	0.05
Antimony *	–	0.005
Bismuth *	–	0.005
Lead *	–	0.005
Carbon	–	0.10
Sulphur *	–	0.02
Other Impurities	–	0.10

* These elements need not be determined when the material supplied conforms with the properties specified in this specification. However, the supplier shall ensure that the composition of the material lies within the limits specified above.

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**7.0 INSPECTION AT SUPPLIER'S WORKS:**

Whenever specified, tests and inspection are to be conducted in the presence of BHEL's representative.

The supplier shall offer BHEL's representative all reasonable facilities, without charge to satisfy the latter that the material is being furnished in accordance with this specification. The supplier shall prepare and provide necessary test specimens for testing to be carried out at his premises. If facilities are not available at his works, the supplier shall make necessary arrangements for carrying out the prescribed tests elsewhere. The supplier shall notify BHEL in advance about the readiness of the material for inspection and testing.

BHEL reserves the right to test the material at BHEL's work and the final acceptance of the material shall be based on these test results.

8.0 TEST CERTIFICATES:

Unless and otherwise stated, three copies of certificates shall be supplied along with each consignment giving the following information.

In addition the supplier shall ensure to enclose one copy of test certificate along with their despatch documents to facilitate quick clearance of the material.

AA 113 15 (Rev. No. 01) : Pure Nickel
BHEL order no.
Manufacturer's / supplier's name.
Batch no.
Quantity Supplied.
Test results of clause 4 and 6.

9.0 PACKING AND MARKING:

The material shall be packed in air tight, moisture proof steel drums of 50 kg each. Each container shall be legibly marked or labelled with the following information.

AA 113 15 : Pure Nickel.
BHEL Order No.
Manufacturer's / supplier's name.
Batch no.
Net weight and percentage of nickel content.

10.0 REJECTION AND REPLACEMENT:

If the material does not comply with the requirements of this specification during receipt inspection at BHEL or if any defect is found during further processing of the material, BHEL reserves the right to reject the whole consignment notwithstanding any previous certification of satisfactory testing and / or inspection. The supplier shall undertake to replace the rejected material at his own cost and the rejected material shall be taken back by the supplier after fulfilling the commercial terms and conditions.

11.0 REFERRED STANDARDS (Latest Publications Including Amendments):

1. IS: 2789
2. IS:2766, part 1